

NC State University Design and Construction Guidelines

Division 09 Interior Finishes

1.0 Purpose

- A. These guidelines define planning, design, and construction requirements that are particular to all university spaces (except for classrooms) and that are to be incorporated into the Construction Documents.

2.0 General Requirements

- A. Flooring - Carpet shall be used in general use and office type spaces. Vinyl flooring is to be used in areas subject to spills. In areas of high traffic, high humidity, or being subject to abuse, more durable floor finishes shall be used. In research labs and animal areas epoxy flooring is preferred.
- B. Walk Off Areas – Solid black entrance mats will be provided by NC State. Recessed mats are not acceptable. In building entrance areas that are carpeted, walk-off carpet shall be used.
- C. Ceilings - All ceiling systems shall allow easy access to critical points of utilities; junction boxes, valves, exchangeable filters, etc. Access doors to utilities shall be provided in gypsum ceilings and indicated on contract documents.

3.0 Materials & Standards

- A. Carpet
 - 1. Carpets shall be medium color with a pattern.
 - 2. Fiber shall be nylon type 6,6 or type 6. Heavy use areas such as building corridors and large open office environments shall be antron nylon 6,6.
 - 3. Carpet adhesives shall be Carpet and Rug Institute (CRI) Green Label Plus certified for VOC emissions.
 - 4. Carpet cushion shall meet the requirements of the CRI Green Label program.
 - 5. Carpet shall be certified to meet the NSF/ANSI 140-2007 Standard at a Gold level minimum.
 - 6. Warranty Period Standard:
 - a) Edge Ravel: lifetime (Seams should not have to be sealed during the installation process).
 - b) Backing Lamination: lifetime (Chair pads shall not be required).
 - 7. Stair nosing shall be Balco Inc., Photo luminescent Nosing series number: RS-405L-PL or equivalent.
 - a) Material: mill finish extruded aluminum

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- b) Size: 4" width and 1 ³/₈" deep overhang
 - c) Strips: 4 abrasive treads and one ½" photo luminescent strip.
 - d) Attachment: Mechanical fasteners shall be used to anchor stair nosing to the substrate. Adhesives may be used in conjunction but not as sole means of attachment.
 - e) Nosing shall be installed on top of carpet.
- B. Resilient Flooring
- 1. Flooring and adhesives should have no or low VOC emissions.
 - 2. Floor finish, sheet or tiles shall be commercial grade, through-color construction, moisture, and stain / chemical resistant.
 - 3. Green Seal certified products shall be used.
 - 4. Recycled content (post-consumer and post-industrial waste) shall be a minimum of 10%.
- C. Ceramic/Porcelain Tile
- 1. All floor tiles shall be non-slip and rated for heavy duty use.
 - 2. Designs where floor and wall tile indicate a "mosaic" the pattern shall be detailed in the contract documents to clearly indicate the complexity of the pattern and tile sizes.
 - 3. All floor tile grout shall be sealed; in ganged toilet rooms and ganged shower rooms floor tile grout shall be epoxy. White or light colored grout shall not be used for floor applications.
 - 4. Tiles on the slope to a floor drain shall not be larger than 6" x 6" in size.
- D. Flooring edge strips shall be installed at each transition between floor finishes that vary in thickness. The edge strip shall be no less than 1" wide with beveled edges of vinyl, aluminum, or stainless steel (at transition to hard flooring surface).
- E. Mechanical Rooms shall be sealed concrete, coated with one of the following systems. Sherwin Williams H&C water base clear concrete sealer in either a gloss or sheen finish.
- F. Ceiling Suspension System
- 1. Recommended system is lay-in acoustical ceiling. Concealed or thin spline ceilings are not acceptable.
 - 2. Ceiling systems should be constructed of 10% recycled content.
 - 3. Acoustical ceiling tiles and grid components shall be produced by a single manufacturer.

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4. Ceiling tiles:
 - a) Profile: Square edge
 - b) Size: 24" x 24"
 - c) Thickness: $\frac{5}{8}$ "
 - d) Pattern: Non-directional fissuring. (Pattern should match existing in renovation areas).
5. ACT Grid - Galvanized steel 1- $\frac{1}{2}$ " deep x $\frac{15}{16}$ " flange
- G. Paint - Interior paint and coatings shall be VOC free. Flat paint and specialty paint are not acceptable.
- H. Vinyl Wall Covering shall not be used.
- I. Wall Base – shall be 4" rubber cove base, with a radius top. Corners shall be field-cut wrapped inside/outside corners and not preformed.

4.0 Installation

- A. Install flooring wall to wall before the installation of floor-set cabinets, casework, furniture, equipment, movable partitions, etc. Extend flooring into toe spaces, door recesses, closets, and similar openings.
- B. Finished flooring may not be glued to VAT (Vinyl Asbestos Tile) flooring.
- C. Carpeting
 1. Carpet shall not be installed over another carpet.
 2. No fill pieces to terminate in door way.
 3. Carpet installation layouts shall be provided as a shop drawing.
 4. Broadloom carpet adhesives must be VOC free. Aerosol adhesives are not permitted. Carpet tiles must be installed without use of adhesives.
- D. Resilient VCT Flooring
 1. A flooring contractor is required to finish newly installed vinyl flooring surfaces. The selected contractor will be required to prepare the floor as follows:
 - a) See preferred manufacturer list for floor finishing and stripper.
 - b) Apply four (4) coats of Floor Finish on clean, dry, hard-surface flooring.
 - c) Within 48 hours of applying the final coat of finish, the contractor must dry burnish the floor using a beige combination pad.
 - d) Green Seal certified products shall be used.